



NOAC Yokosuka, Japan

LT William Girdler
Operations Officer





TCCOR Authorities

TCCOR Authority	OPR	Area
Commander, 18th Wing	18 OSS/OSW	<u>Okinawa Island:</u> All DoD installations on Okinawa
Commanding Officer, Iwakuni Marine Corps Air Station (MCAS)	MCAS Iwakuni Weather Office	<u>Iwakuni Area:</u> Iwakuni, Sofu Communications Site, Rokko Communications Site, Akizuki Ammunition Depot, Kure Pier No. 6, Hiro Ammunition Depot, Haigamine Communications Site, Kawakami Ammunition Depot
Commander, Naval Forces Japan	Naval Oceanography ASW Center, Yokosuka (NOAC)	<u>Yokosuka Area:</u> Yokosuka, Yokohama, Iwo Jima (when US forces are deployed) <u>Sasebo Area:</u> Sasebo, Yokose POL Depot, Tsushima Communications Site
Director of Operations, US Forces Japan	374 OSS/OSW	<u>Kanto Plain:</u> Yokota AB, Camp Zama, Naval Air Facility Atsugi, Camp Fuji
Commander, 35th Fighter Wing	35 OSS/OSW	<u>Misawa Area:</u> Misawa, Hachinohe POL Depot



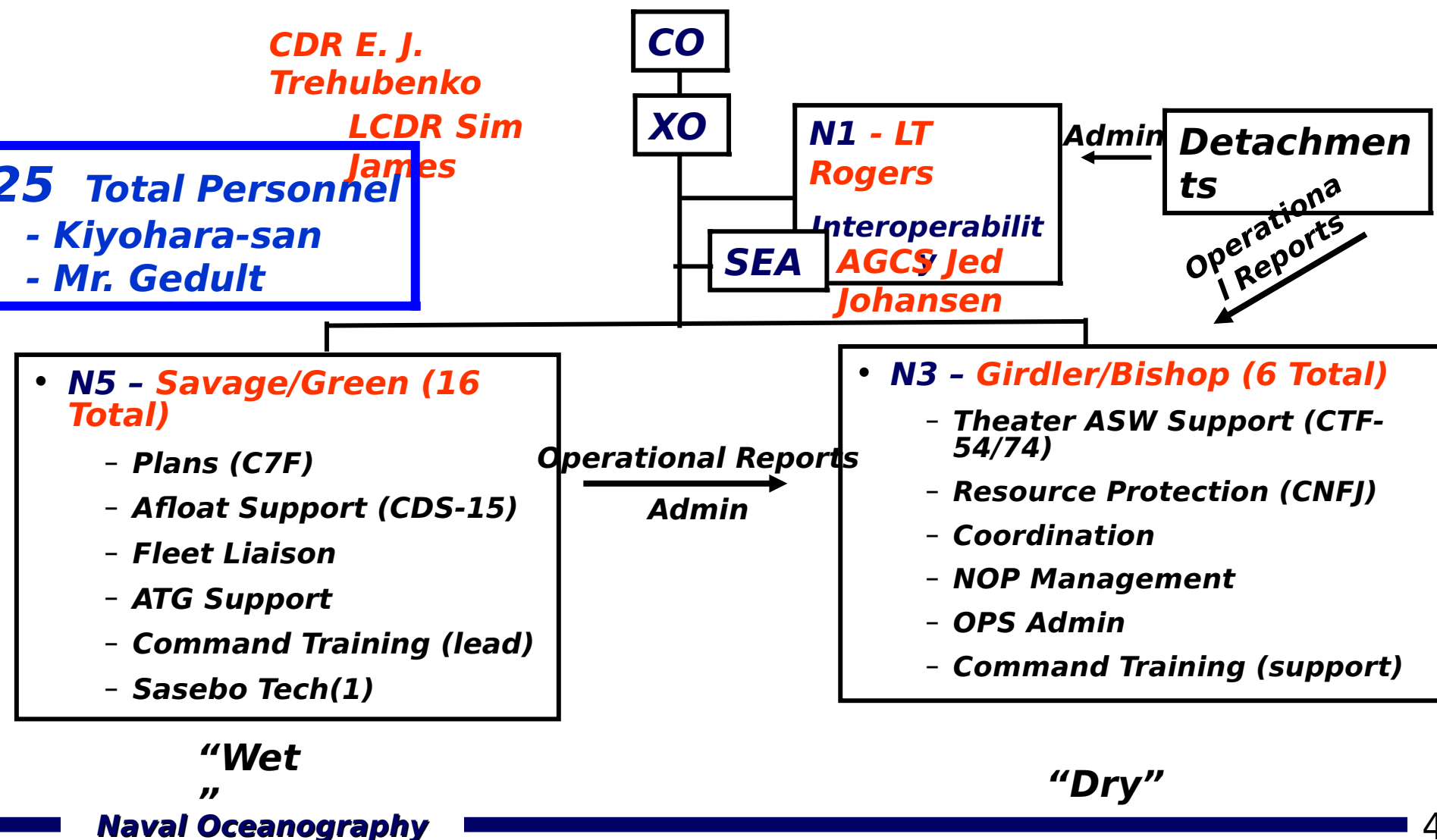
Additional Areas NOAC will be asked



- ***Hong Kong & Diego Garcia (CNFJ SOPA ADMIN)***
- ***Iwo To (When Naval Personnel are there)***
- ***NAF Atsugi, NAF Misawa, NAF Kadena,***
- ***C7F (CDR Mike Roth)***
 - ***Sortie Conditions for C7F assets***
- ***BOTTOM LINE!***
 - ***Anyplace a naval asset is threatened CNFJ wants NOAC to provide update!***



NOAC Yokosuka





NOAC Yokosuka Tropical Cyclone Watch Officer (CDO)



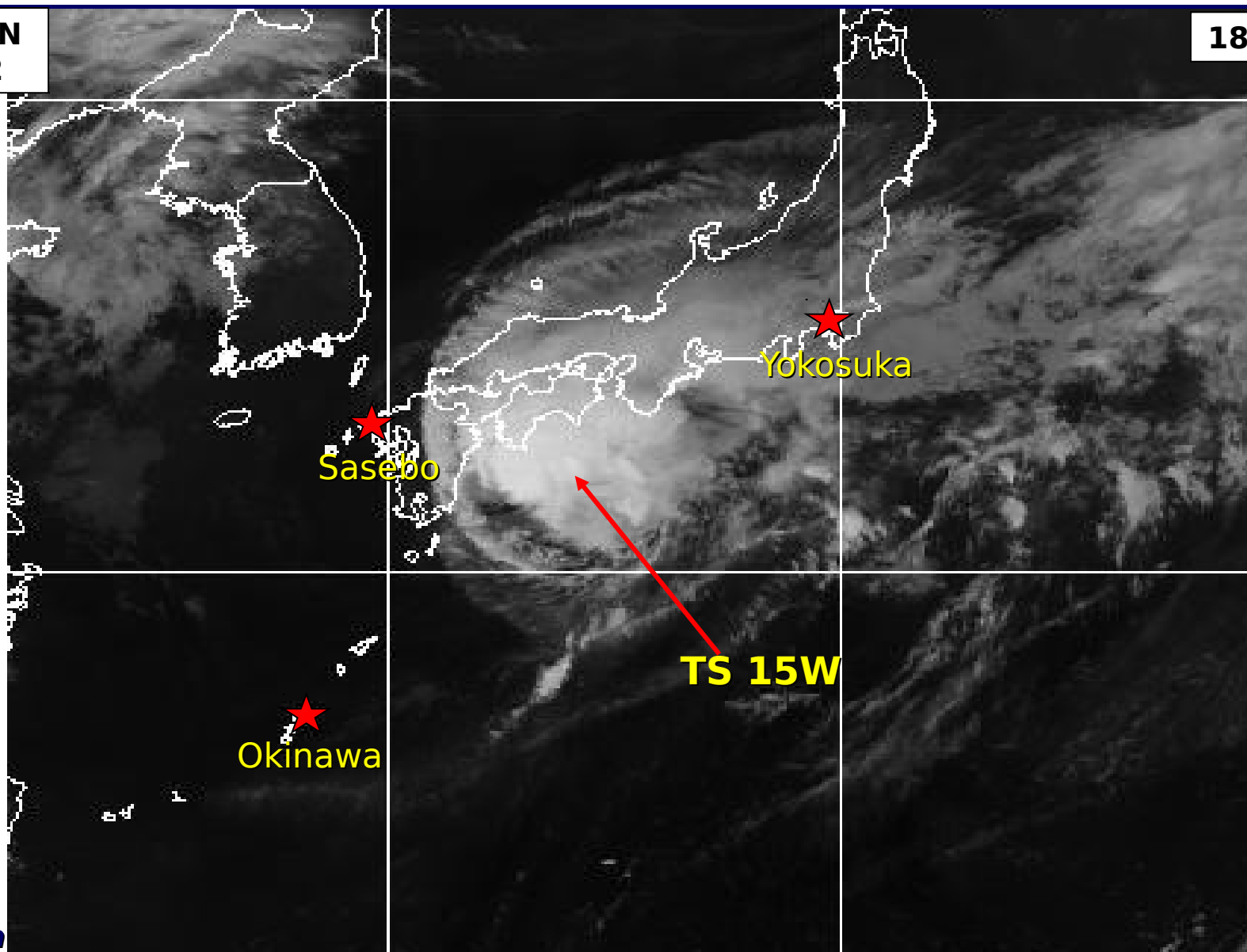
- **“Watches”** anytime a TC is forecast to come within **180NM** of a CNFJ asset
- Maintains a **continuous TC plot**, compares to other fixes
- Analyzes **all available** local data
 - Satellite Imagery (Center fixes, Scatterometry, Rain rate, winds, structure)
 - **Outside Agencies** (JMA, KMA, Hong Kong Observatory, NWS/NOAA, ECMWF, UK)
 - Model Data (Synoptic scale and Mesoscale)
 - **Nomograms / Wind Probability**
 - **Local knowledge**
- **Prepare and deliver** staff briefs
- **Issues local warnings**



TS 15W

WARNIN
G #42

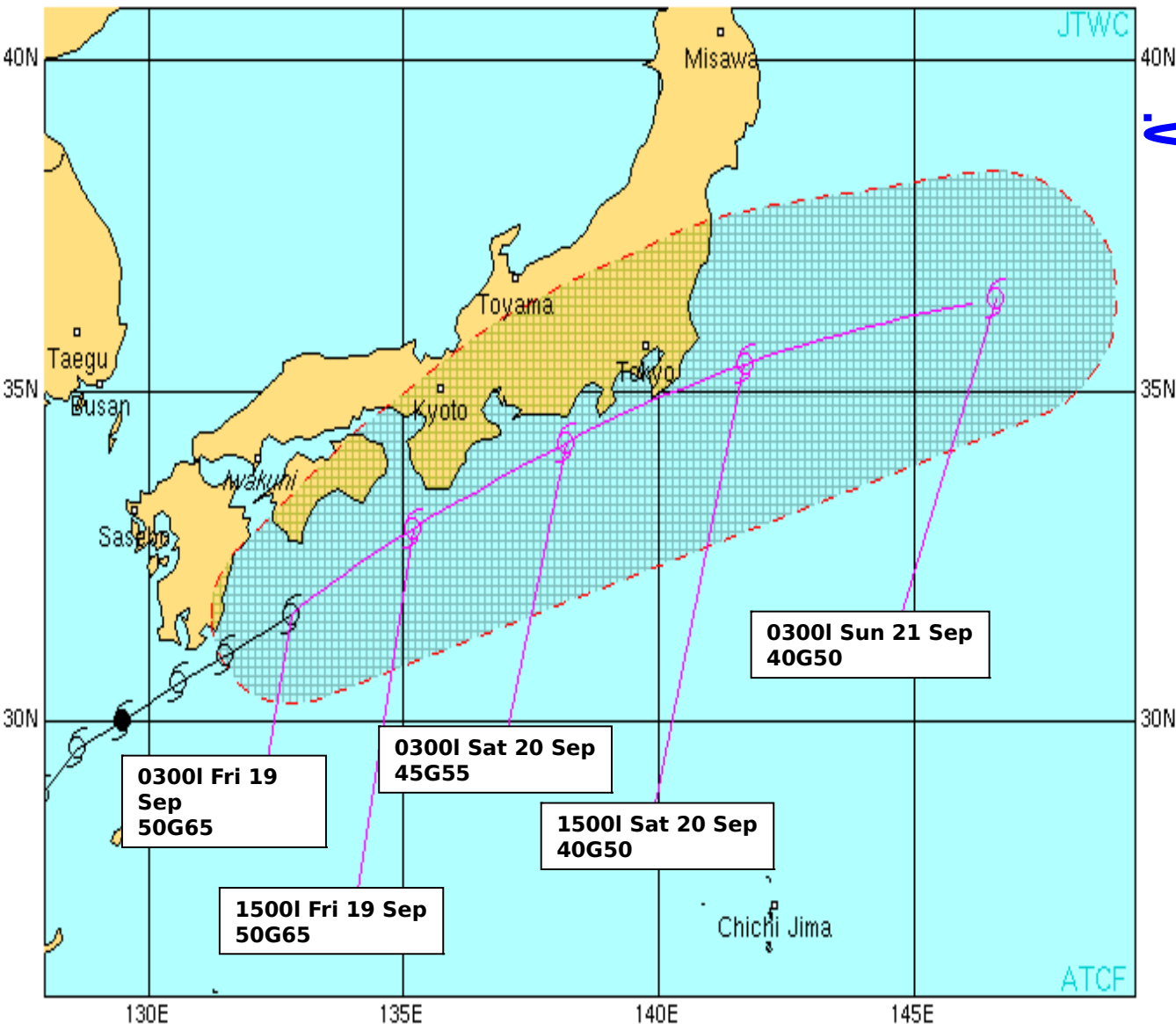
18/1930Z





TS 15W

WARNIN
G #42



TROPICAL STORM 15W (SINLAKU) WARNING #42
181800Z POSIT: NEAR 31.6N 132.8E
MOVING 060 DEGREES TRUE AT 13 KNOTS
MAXIMUM SIGNIFICANT WAVE HEIGHT: 14 FEET
18/18Z, WINDS 050 KTS, GUSTS TO 065 KTS
19/06Z, WINDS 050 KTS, GUSTS TO 065 KTS
19/18Z, WINDS 045 KTS, GUSTS TO 055 KTS
20/06Z, WINDS 040 KTS, GUSTS TO 050 KTS
20/18Z, WINDS 040 KTS, GUSTS TO 050 KTS

CPA TO:	NM	DTG
ATSUGI	46	20/00Z
IWAKUNI	156	18/23Z
MISAWA	293	20/09Z
YOKOSUKA	29	20/00Z
YOKOTA_AB	57	20/00Z

BEARING AND DISTANCE	DIR	DIST (NM)	TAU (HRS)
ATSUGI	217	98	24
IWAKUNI	89	303	24
MISAWA	132	349	48
YOKOSUKA	229	99	24
YOKOTA_AB	214	108	24
	81	352	48

○ LESS THAN 34 KNOTS

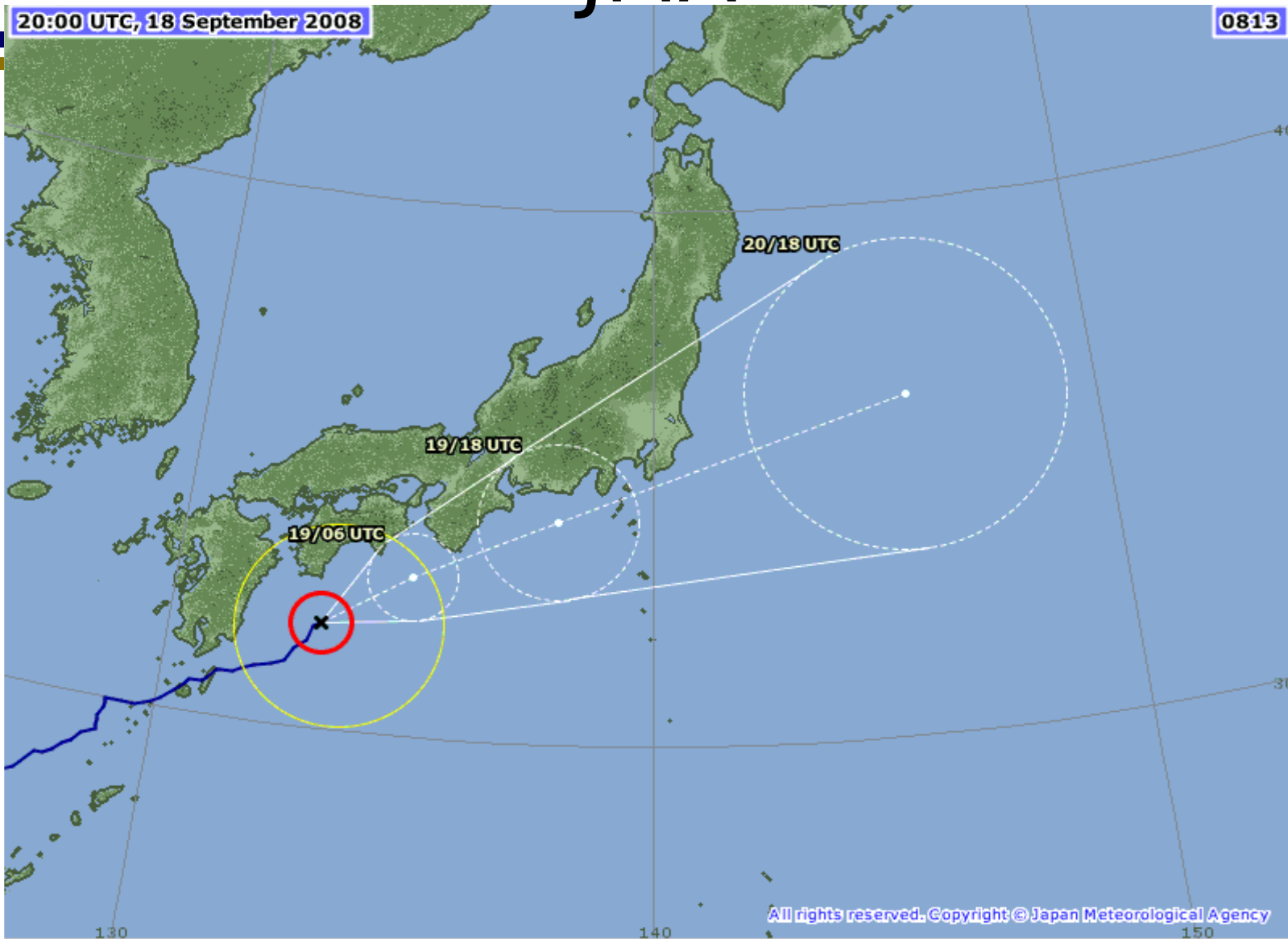
◐ 34-63 KNOTS

● MORE THAN 63 KNOTS

PAST 6 HOURLY CYCLONE POSITS IN BLACK
FORECAST CYCLONE POSITS IN COLOR



JMA



Area of 50kt winds or more

Area of 30kt winds or more

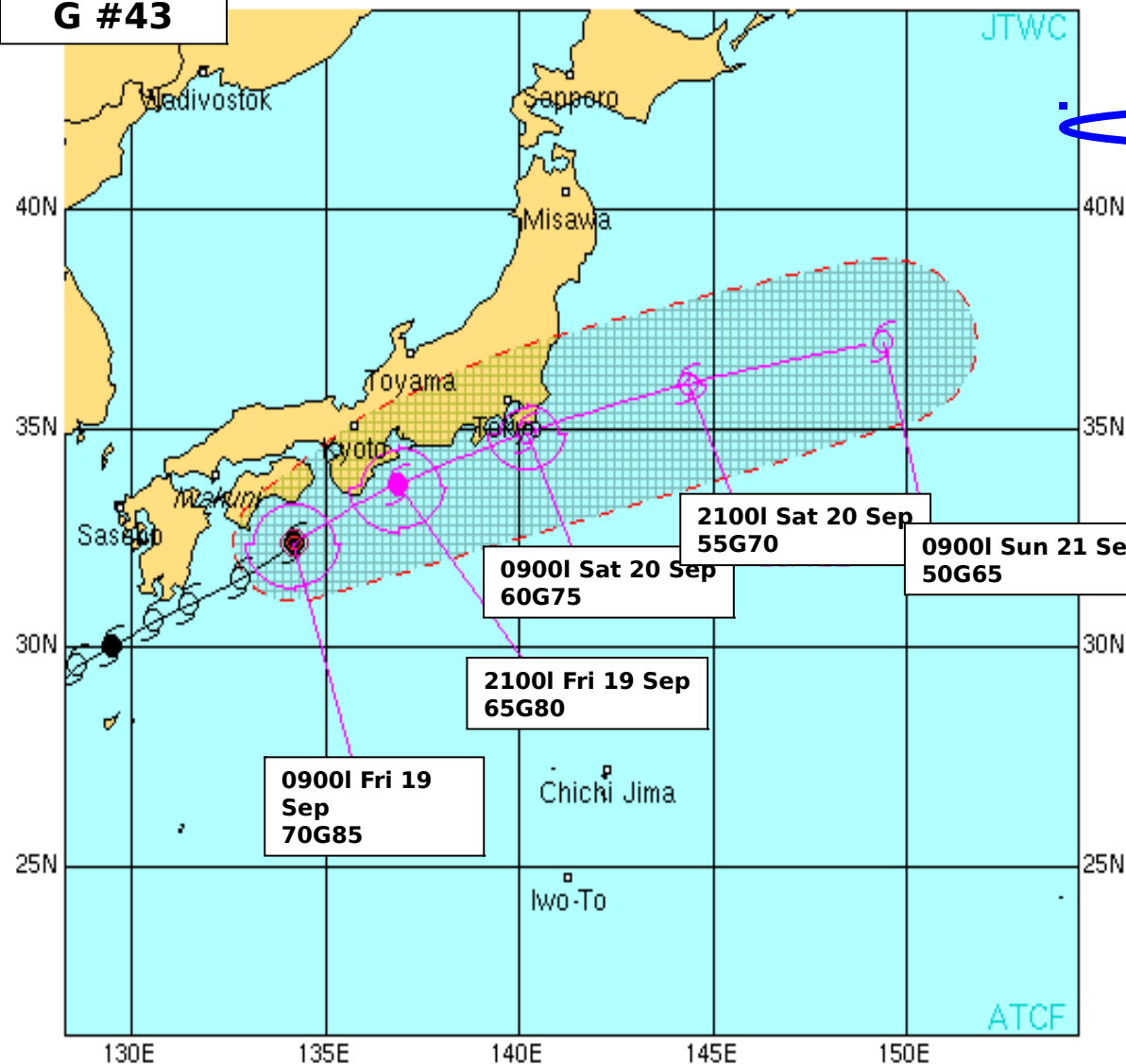
Storm warning area

70% Probability circle
of center position forecast



TY 15W

**WARNIN
G #43**



TYPHOON 15W (SINLAKU) WARNING #43
190000Z POSIT: NEAR 32.4N 134.2E
MOVING 055 DEGREES TRUE AT 14 KNOTS
MAXIMUM SIGNIFICANT WAVE HEIGHT: 13 FEET
19/00Z, WINDS 070 KTS, GUSTS TO 085 KTS
19/12Z, WINDS 065 KTS, GUSTS TO 080 KTS
20/00Z, WINDS 060 KTS, GUSTS TO 075 KTS
20/12Z, WINDS 055 KTS, GUSTS TO 070 KTS
21/00Z, WINDS 050 KTS, GUSTS TO 065 KTS

CPA TO:	NM	DTG
ATSUGI	48	19/23Z
MISAWA	296	20/08Z
YOKOSUKA	31	19/23Z
YOKOTA_AB	58	19/23Z

BEARING AND DISTANCE	DIR	DIST (NM)	TAU (HRS)
ATSUGI	217	98	24
IWAKUNI	89	303	24
YOKOSUKA	229	99	24
	77	342	48
YOKOTA_AB	214	108	24
	81	352	48

○ LESS THAN 34 KNOTS
○ 34-63 KNOTS
● MORE THAN 63 KNOTS
PAST 6 HOURLY CYCLONE POSITS IN BLACK
FORECAST CYCLONE POSITS IN COLOR



Facts of Life

- ***NOAC has a small staff with many deployed***
- ***C7F sets sortie conditions***
- ***NOAC main focus is ASW***
 - ***Resource protection is NOAC's "side job"***
- ***Timing is very important for morning Typhoon Battle Rhythm in order to support CNFJ morning brief.***
 - ***NOAC needs to assess***
 - ***Conference call***
 - ***Prep brief***
- ***People in Japan get very concerned when JTWC says one thing but when they go to JMA's webpage, they get confused/tense when there is a difference and it leaves NOAC in the uncomfortable position of trying to explain the delta.***



Final Thoughts

- ***C7F and CNFJ are generally “Happy”***
- ***We appreciate:***
 - ***Early communications when major changes are expected.***
 - ***Early Warnings- warn on priority systems first (ie. Storm tracking to make land fall on Japan before one that will make land fall on China)***
 - ***Not dropping warnings when storm goes extratropical until after passes naval facilities***
- ***We need better understanding:***
 - ***Wind Probabilities products, How to apply to TCCOR Recommendations***
 - ***Wind Radii Depictions for systems undergoing extra tropical transition***
 - ***Anticipated rain amounts (minor flooding in housing)***
 - ***Potential for significant storm surge***